

1 41. The method of claim 19, wherein said transferring said message comprises:
2 passing said message between said first task and said second task by
3 performing a fast-path message copy if said thread is queued to said
4 thread queue; and
5 passing said message between said first task and said second task by
6 performing a message copy if said thread is not queued to said thread
7 queue.

1 42. The method of claim 41, wherein said performing said fast-path message copy
2 comprises:
3 copying said message from a memory space of said first task to a memory
4 space of said second task.

1 43. The method of claim 41, wherein said performing said message copy
2 comprises:
3 copying said message from said first task to said thread control block/message
4 structure;
5 waiting for said thread to be queued to said thread queue; and
6 copying said message from said thread control block/message structure to said
7 second task.

1 44. The method of claim 41, wherein said first task acts as a client task and said
2 second task acts as a server task.

1 45. A computer program product encoded in computer readable media, said
2 computer program product comprising:
3 a first set of instructions, executable on a computer system, configured to send a
4 message between a first task and a second task by performing a send operation,
5 wherein said first task performs said send operation and said send operation
6 employs a thread control block/message structure;

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7 a second set of instructions, executable on said computer system, configured to cause
8 said second task to perform a receive operation.

1 46. The computer program product of claim 45, wherein said thread control
2 block/message structure comprises:
3 a thread control block, wherein said thread control block is described by a first data
4 structure, and
5 a message, wherein said message is described by a second data structure and said first
6 data structure comprises said second data structure.

1 47. The computer program product of claim 45, wherein said thread control
2 block/message structure supports control of a thread within said second task and said
3 computer program product further comprises:
4 a third set of instructions, executable on said computer system, configured to
5 determine if said thread is queued to a thread queue of said second task; and
6 a fourth set of instructions, executable on said computer system, configured to transfer
7 said message from said first task and said second task.

1 48. The computer program product of claim 47, wherein said fourth set of
2 instructions comprises:
3 a first subset of instructions, executable on said computer system, configured to pass
4 said message between said first task and said second task by performing a fast-
5 path message copy if said thread is queued to said thread queue; and
6 a second subset of instructions, executable on said computer system, configured to
7 pass said message between said first task and said second task by performing a
8 message copy if said thread is not queued to said thread queue.

1 49. The computer program product of claim 48, wherein said first subset of
2 instructions comprises:
3 a first sub-subset of instructions, executable on said computer system, configured to
4 copy said message from a memory space of said first task to a memory space
5 of said second task.

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1 50. The computer program product of claim 48, wherein said second subset of
2 instructions comprises:
3 a first sub-subset of instructions, executable on said computer system, configured to
4 copy said message from said first task to said thread control block/message
5 structure;
6 a second sub-subset of instructions, executable on said computer system, configured to
7 wait for said thread to be queued to said thread queue; and
8 a third sub-subset of instructions, executable on said computer system, configured to
9 copy said message from said thread control block/message structure to said
10 second task.

1 51. The computer program product of claim 48, wherein said first task acts as a
2 client task and said second task acts as a server task.

1 52. A computer system comprising:
2 a processor;
3 computer readable medium coupled to said processor; and
4 computer code, encoded in said computer readable medium, configured to cause said
5 processor to:
6 send a message between a first task and a second task by performing a send
7 operation, wherein said first task performs said send operation and said
8 send operation employs a thread control block/message structure; and
9 cause said second task to perform a receive operation.

1 53. The computer system of claim 52, wherein said thread control block/message
2 structure comprises:
3 a thread control block, wherein said thread control block is described by a first data
4 structure, and
5 a message, wherein said message is described by a second data structure and said first
6 data structure comprises said second data structure.

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1 54. The computer system of claim 52, wherein said thread control block/message
2 structure supports control of a thread within said second task and said computer code is
3 further configured to cause said processor to:
4 determine if said thread is queued to a thread queue of said second task; and
5 transfer said message from said first task and said second task.

1 55. The computer system of claim 54, wherein said computer code further
2 configured to cause said processor to transfer said message from said first task and said
3 second task is further configured to cause said processor to:
4 pass said message between said first task and said second task by performing a fast-
5 path message copy if said thread is queued to said thread queue; and
6 pass said message between said first task and said second task by performing a
7 message copy if said thread is not queued to said thread queue.

1 56. The computer system of claim 55, wherein said computer code further
2 configured to pass said message between said first task and said second task by performing a
3 fast-path message copy is further configured to cause said processor to:
4 copy said message from a memory space of said first task to a memory space of said
5 second task.

1 57. The computer system of claim 55, wherein said computer code further
2 configured to pass said message between said first task and said second task by performing a
3 message copy is further configured to cause said processor to:
4 copy said message from said first task to said thread control block/message structure;
5 wait for said thread to be queued to said thread queue; and
6 copy said message from said thread control block/message structure to said second
7 task.

1 58. The computer system of claim 55, wherein said first task acts as a client task
2 and said second task acts as a server task.

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In view of the amendments and remarks set forth herein, the application is believed to be in condition for allowance and a notice to that effect is solicited. Nonetheless, should any issues remain that might be subject to resolution through a telephonic interview, the Examiner is invited to telephone the undersigned.

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